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Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, D.C. 20554

RECD  
May 29 1998  
FCC

In the Matter of )  
The ARRL's )  
REQUEST FOR DECLARATORY RULING ) RM-9259  
Titled "Compliance With Applicable Voluntary )  
Band Plans in the Amateur Radio Service )

To: The Chief, Private Wireless Division  
Wireless Telecommunications Bureau

OBJECTION TO

REQUEST FOR DECLARATORY RULING

Nicholas Donald Zorn (N4SS)  
4956 Carlyn Drive  
Pace, FL 32571  
May 1, 1998

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List A B C D E  
WTB

I am writing this letter to enumerate and explain several reasons why the ARRL's Request For Declaratory Ruling should not be granted. I am an Extra Class amateur, licensed continuously since 19 January, 1955; my previous call sign was K4BSS. I've been a member of the ARRL since the late 1950's or early '60's, and a life member since about 1976. My amateur radio activities have always been involved with public service, especially emergency and disaster communications. For the past eight years or so I have been responsible for coordinating the National Traffic System (NTS) digital communications in the eastern third of the US (EAN) and, to some extent, Canada. I also have been asked to assist the other areas on occasion.

I am a retired naval aviator and, during my 24 plus years on active duty, served several years as a communications officer, as well as Avionics and Weapons Division Officer. I later served as Squadron Maintenance Officer. Retired in 1975 due to health problems, I have been very active in amateur radio since then. I have BS and MS Degrees in Computer Science (Scientific option).

I oppose the ARRL proposal because it is too broad and general, is probably unconstitutional and would surrender FCC regulatory functions to the ARRL which is not sufficiently knowledgable or current to discharge them properly. The Rules are current, complete and satisfactory just as they are. Problems with violators that we currently experience can be dealt with under the Rules now in existence--we only need enforcement support which I recognize is a "money problem."

Adding other ways of citing violators will not diminish the problem nor make it easier to enforce the Rules. Enforcement would still fall to some part of the Federal Government, not the ARRL.

The ARRL proposal would affect EVERY amateur band set forth in the Rules. I do not oppose the bandplanning related to repeater and other VHF and up operations. I was informed about two months ago that the ARRL Board of Directors reason for making the request was related to problems on the 160 meter band, yet most of their text is related to VHF and above and Repeater operations. And, indeed, most of the recent enforcement actions have been so related.

However, that portion of the League's request dealing with MF and HF operation is seriously flawed for several reasons. First, I have, on several occasions, asked the League to identify those who determine the "Considerate Operator's Frequency Guide" and tell me how I can make an input (on the MF and HF portion). I have never been given a reasonable answer and never been able to make an effective input. Thus, the League is not responsive to those of us concerned with MF/HF band planning.

Secondly, the League's "bandplan" is about ten years out of date. Please refer to the first attachment for a listing of the MF/HF portion of the "bandplan." Please note that no mention is made of the newer digital modes eg; Amtor, Pactor, Clover and Pactor II. The references to packet date back to the late 1980s and a mode not suitable for use on MF or HF. I expect to file within the near future a request that the FCC terminate authorization for packet operation below 30 Mhz.

Please refer to the second attachment, which is a partial listing of digital stations world-wide. If you compare it with the League's "bandplan" you'll see, among other things, that the League is not up to date with what is happening in the real world and that their plan takes no notice of the fully automatic sub-bands. Not only that, it is plain that, even if the Commission grants the League's request, those foreign stations will continue with today's bandplan.

There are other considerations: other countries don't adhere to the frequency plan laid out in the Rules, even though they are in our region. Canada is an example..their twenty meter 'fone band extends down to 14100 KHz. There is also the case of Mexican amateurs running packet at 1200 baud on twenty meters and probably other bands.

The digital part of the NTS has been active in public service from the beginning, but even more so after the Rules were modified to allow fully automatic forwarding. For instance, during the hurricane which affected the Caribbean a couple of years ago the digital part of NTS handled more than 1000 inquiries about the health and welfare status of people in that area. We were also available to disaster officials who, unfortunately, decided to use voice communication because of power outages and lack of equipment. Incidentally, I had requested in advance, via my ARRL Division Director, that ARRL provide some emergency equipment in that area for just such an occasion. My request was not honored. Our partners in the Caribbean remain on call for future emergencies. As an example of our current digital operation, we in the Eastern Area handled 11,163 messages during this past March.

I submit that, to my knowledge, no member of the ARRL Board of Directors and no member of the Headquarters Staff, is active on the MF or HF digital bands and therefore the Board is not qualified to make judgments on the subject. Lacking that qualification, they are not qualified to assume the duties and responsibilities they are requesting.

If the Commission wishes to grant some part, or perhaps all, of the League's request I suggest that matters affecting digital operations, including bandplanning, be assigned to the American Digital Radio Society (ADRS) which is qualified to discharge such duties and responsibilities.

Finally, though I am a Life Member of the League, I assert that the ARRL does NOT speak for me, especially in matters of bandplans and digital mode operations.

In the final analysis, I request that the Commission deny the League's request.

Respectfully submitted,

4956 Carlyn Drive  
Pace, FL 32571

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Nicholas D. Zorn, N4SS

# ATTACHMENT 1

## ARRL Band Plans

Reprinted from "The Considerate Operator's Frequency Guide" January 1995 QST

This information is for quick reference only - refer to the band plan listings in the Operating Manual FCC Rule Book or the ARRL Repeater Directory for full details.

For sharing arrangements, see Section 97.303 of the FCC Rules  
For detailed packet frequencies, see QST, September 1987, page 54  
and March 1988, page 51.

### 160 Meters (1.8-2.0 MHz) :

1.800-1.830 CW, RTTY and other narrowband modes  
1.830-1.840 CW, RTTY and other narrowband modes, Intercontinental QSOs only  
1.840-1.850 CW, SSB, SSTV, other wideband modes, Intercontinental QSOs only  
1.850-2.000 CW, phone, SSTV and other wideband modes

### 80 Meters (3.5-4.0 MHz) :

3.590 RTTY DX  
3.580-3.620 RTTY  
3.620-3.635 Packet  
3.790-3.800 DX window  
3.845 SSTV  
3.885 AM calling frequency

### 40 Meters (7.0-7.3 MHz) :

7.040 RTTY DX  
7.080-7.100 RTTY  
7.171 SSTV  
7.290 AM calling frequency

### 30 Meters (10.1-10.15 MHz) :

10.130-10.140 RTTY  
10.140-10.150 Packet

### 20 Meters (14.0-14.35 MHz) :

14.070-14.095 RTTY  
14.095-14.0995 Packet  
14.100 NCDXF Beacons  
14.1005-14.112 Packet  
14.230 SSTV  
14.286 AM calling frequency

### 17 Meters (18.068-18.168 MHz) :

18.100-18.105 RTTY  
18.105-18.110 Packet

### 15 Meters (21.0-21.45 MHz) :

21.070-21.100 RTTY  
21.100-21.110 Packet  
21.340 SSTV

12 Meters (24.89-24.99 MHz) :

24.920-24.925      RTTY  
24.925-24.930      Packet

10 Meters (28-29.7 MHz) :

28.000-28.070      CW  
28.070-28.150      RTTY  
28.150-28.190      CW  
28.190-28.225      Beacons  
28.300-29.300      Phone  
28.680              SSTV  
29.000-29.200      AM  
29.300-29.510      Satellite Downlinks  
29.520-29.590      Repeater Inputs  
29.600              FM Simplex  
29.610-29.700      Repeater Outputs

## ATTACHMENT 2

These Winlink Clover mailboxes operate 24 hours/day, unless indicated, and forward directly to/from their local Packet Network. Listed is the Center Frequency. Separate bulletins are issued for Pactor MBO's.

Explanation of codes used:

B = Using a Beam antenna

D = Using a Dipole antenna

H = URL of Homepage

N = Offers Netlink (Radio <> E-mail Gateway)

The Radio User's virtual E-Mail address is listed

V = Using a Vertical antenna

Outside USA

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BV5AF.#CHA.TWN.AS - Bolon - bv5af@ms1.hinet.net -  
V 14064

CP5VW.BOL.SA - Mike - (non-Winlink)  
B North: 14097.75 14107.75 14113.75 21063.75 21065.75

GB7SIG.#45.GBR.EU - Jim - 3663.25 7037.75 14063.25 14107.75

ON6RO.#LG.BEL.EU - Rene - rene14@infonie.be  
B 7037.9 14063.9 14065.9

OZ2AMT.DNK.EU - Kristian/OZ6KN - kbn.link@post5.tele.dk  
B 1230-1600: USA  
1100-1300: 21063.75 - 1100-1500: 14063.75 - 1200-1500: 14072.85

VK2AGE.#NE.NSW.AUS.OC - Gordon - nr Brisbane - gadow@om.com.au  
B 7044.77 10110.75 10126.75 14074.75 14076.75 21075.74 -  
beaming NA 2330-0600 1030-1130 AF 0600-0800  
AS/EU 0800-0900 (LP) 0900-1030 1130-1300 1330-2330

ZF1GC.#GC.CYM.CAR.NA - Frank - zf1gc@candw.ky  
N call@gcm.win-net.org  
7035.9 7036.9 7037.9 7039.9 7045.9 7067.9 7075.9 7101.4  
10123.9 10125.9 10140.4 10140.9 10142.4  
14063.4 14063.45 14063.75 14063.9 14064.0 14065.75 14065.9  
14066.0 14066.9 14066.9 14068.9 14069.4 14069.9 14070 14070.9  
14071.9 14072 14073.9 14075.9 14076.9 14077.4 14077.9 14097.75  
21063.9 21065.9

ZS5S.ZAF.AF - Joost - near Durban - zs5s@iafrica.com  
HN <http://users.iafrica.com/z/zs/zs5s> - call@dur.win-net.org  
B 7037 7041 14064 14069 14073 21064 21069 21073 28073  
AF/EU: 0500-0630 0800-1130 1430-2000  
AS/OC: 0630-0800 1130-1400 2100-0500  
NA : 1400-1430/LP 1800-0500 -  
SA : on request

USA.NA

-----  
KQ4ET.#VABEACH.VA.USA.NA - Joel - Virginia Beach - (NTS only)  
3625.75 3627.75 7063.75 7064.75 7065.75 10131.75 10134.75

14107.75 14111.75 14113.75

N0IA.#CENFL.FL.USA.NA - Bud - budt@n-jcenter.com - \* on test \*  
7104.25 10141.75 - 2200-1300: 3627.75 - 1300-2200: 14097.75

N1NNM.#ENC.NC.USA.NA - Luke - Millcreek - n1nnm@coastalnet.com -  
3630.75 7065.75 10142.25

N4SS.#WFL.FL.USA.NA - Nick - Milton/Pensacola - zorn@gulf.net -  
3627.75 7063.75 7104.25 10134.75 10140.75  
14064.75 (14111.75 NTS only)  
0100-1300: 3625.75 7064.75

N5TC.#STEX.TX.USA.NA - Tom - 3625.75 7063.75 7064.75 7075.75  
10132.75 10133.75 14075.75 18103.75

N6IYA.#WCCA.CA.USA.NA - John - (non-Winlink)  
H24: 7061.75 7062.75 7063.75 7064.75 7065.75 7066.75  
Day: 14061.75 14062.75 14063.75 14064.75 14065.75 14066.75

N8PGR.#NEOH.OH.USA.NA - Hans - N8PGR@custsys.com  
V 3627.75 7063.75

WORLI.OR.USA.NA - Hank - HOredson@aol.com - (RLI) - \* (soon) QRT \*  
Day 14097.75 14107.75 14108.75 14109.75 14110.25 14111.75 14113.75  
21091.75  
Night 7063.75 7064.75 7065.75 7069.75 7084.75 7101.25 7104.25

W4NPX.#CVA.VA.USA.NA - Bob -  
HN <http://home.sprynet.com/sprynet/w4npx> - call@cho.win-net.org  
3627.75 3630.75 7063.75 7065.75 7104.25  
10132.75 10133.75 10142.25 14063.75 14065.75 21063.75 28127.9

W7IJ.#WWA.WA.USA.NA - Bill - nr Olympia - 1736.1220@compuserve.com  
V 3604.9 3619.9 3623.9 7067.9 7068.9 10125.9 10127.9  
B ESE: 14067.9 14068.9 14117.9 18104.4 18105.4 21077.9 21078.9

W9MR.#SEIL.IL.USA.NA - Ken - kmartin@wworld.com  
N call@evv.win-net.org  
3627.75 7084.75 10142.25 14107.75 14113.75 21063.75

WA1URA.IN.USA.NA - Frank - fnmoore@cris.com  
N call@fwa.win-net.org  
3622.75 3627.75 3630.75 7063.75 7065.75 7104.25 10133.75 10142.25  
14063.75 14065.75 14107.75 14113.75 21063.75 21065.75

WA2MFY.NJ.USA.NA - Pete - \* no forwarding \* - (non-Winlink)  
3607.75 7062.75 7066.75 10132.75 10133.75 10139.25  
14062.75 14063.75 14064.75 14069.75 14075.75 18097.75  
21062.75 21067.75 24922.75 28081.75

WA7SJN.#WWA.WA.USA.NA - Bill - nr Portland OR - nelsonwi@kalama.com  
7087 (non-WL)

WA9WCN.IN.USA.NA - Bob - adams@iquest.net - \* QRT 98JUL01 \*  
DV 3627.75 3630.75 7063.75 7065.75

WB1DSW.NH.USA.NA - Herb - whftherb@nh.ultranet.com - (non-Winlink)  
B WSW 2200-1400: 7063.75 1400-2200: 14064.75

WX4J.#SWITZ.FL.USA.NA - Earl - wx4j@juno.com -  
N call@jax.win-net.org  
D 3625.75 3627.75 7063.75 7065.75 14107.75 14113.75

This bulletin is updated continuously and distributed monthly.  
Also available at the ZS5S Homepage.

Please send additional info and changes to ZS5S @ ZS5S.ZAF.AF  
e-mail: zs5s@iafrica.com  
- end -

SB PACTOR @ WW < ZS5S \$PCT052\_ZS5S

Following is the original, most comprehensive and up-to-date  
Directory of Pactor Mailboxes, covering Region 2 (America's).  
A separate directory is available for Region 1 and 3 (AF/AS/EU/OC).  
All listed stations are using Winlink Multimode software and  
are available 24 hours, unless noted.

Listed is the standard Center Frequency (see foot note).

Explanation of codes used:

\* = This MBO will auto reply in either Pactor-1 or Pactor-2

B = Using a Beam antenna

D = Using a Dipole antenna

H = Internet Homepage URL

M = Dedicated to Maritime Mobile's (some offer WX Forecasts)

N = Offers 'Netlink' E-Mail Gateway

    Listed is the Radio User's (virtual) E-Mail Address.

    'call' should be replaced by the ham call sign.

O = Non-Winlink MBO

V = Using a Vertical antenna

OUTSIDE USA.NA

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\* 9Y4IBN.TTO.CAR.SA - Irvine - Trinidad - i9y4ibn@carib-link.net  
B 14071.4 - 1300-1900: EU - 1900-2000 AF AS - 2000-2200: NA  
D 2200-1000: 7039.9

O CP5TB.BOL.SA - Mark/CP5VW -  
D 7037.9

KB8JLV.HI.USA.OC - Stan - kb8jlv@worldnet.att.net -  
14068.9

TG9QQ.GTM.NA - Toni -  
14066.9

TG9SO.#GU.GTM.NA - Roberto -  
day: 14067.9 night: 7067.9

\*M V31ZM.PG.BLZ.NA - Glenn - Punta Gorda - Glenn\_Britt@beng.voa.gov -  
D 7067.9 7075.9 7101.4 10123.9 10125.9 10140.4 10142.4  
14066.9 14069.9 14071.9 14075.9 14112.4 14117.9

18102.9 21072.9 24914.9 28072.9

M VE3BRU.#CON.ON.CAN.NA - Bruno - Toronto - ontair@simcoe.igs.net  
B EU: 14071.9

\*M WG3G.MM.CAR.NA - Bernie - Trinidad - bernie@cablenett.net  
N call@pos.win-net.org  
1230-0400: 3617.9 7036.9 7106.9 10125.9 10142.9  
14062.9 14066.9 14069.9 18102.9 21079.9

WH6FG.HI.USA.OC - Jim - Kauai - pilgram@aloha.net  
V 3604.9 3619.9 3626.9 3628.9 3631.9  
7067.9 7068.9 7070.9 7072.9 7074.9 10126.9 10127.9 10140.4  
14068.9 14070.9 14072.9 14074.9 14075.4 14117.9

O XE1M.#CALP.TLAX.MEX.NA - Valentin - vsanchez@supernet.com.mx  
7060.9

M XE2/WP2B.#ENS.BCFA.MEX.NA - Reg - Ensenada - rdantuma@cicese.mx  
14068.9

\*M ZF1GC.#GC.CYM.CAR.NA - Frank - zf1gc@candw.ky  
N call@gcm.win-net.org  
7035.9 7036.9 7037.9 7039.9 7045.9 7067.9 7075.9 7101.4  
10123.9 10125.9 10140.4 10140.9 10142.4  
14063.4 14063.45 14063.75 14063.9 14064.0 14065.75 14065.9  
14066.0 14066.9 14066.9 14068.9 14069.4 14069.9 14070 14070.9  
14071.9 14072 14073.9 14075.9 14076.9 14077.4 14077.9 14097.75  
21063.9 21065.9

USA.NA

=====

AA5BJ.NM.USA.NA - Dusty -  
7074.9 10130.9 10133.9 14064.9

AA7HS.#EWA.WAS.USA.NA - Steve - Yakima - stevehs@nwinfo.net  
3605.3 3626.9 7068.9 7069.9 7070.9 7072.9 7075.4

\* K1UOL.CT.USA.NA - Bob - nr NY - k1uol@juno.com -  
D 3619.9 3620.9 7071.9 7074.9 7075.4 10125.9 10140.4 10141.9  
B 070 dgs  
14065.9 14068.4 14071.4 14072.9 14117.9 21069.9 21072.9 28072.9

\*M K4CJX.#MIDTN.TN.USA.NA - Steve - Nashville - k4cjx@home.com  
HN winlink.org/k4cjx - call@bna.win-net.org  
D 3618.9 3619.9 3620.9 3621.9 7070.4 7072.4 7073.9 7076.9  
10121.9 10123.9 10125.9 10126.9  
14069.9 14070.9 14071.9 14073.9 14076.9

K6IXA.#CCA.CA.USA.NA - Grady - Atwater - gradyw@elite.net  
N call@mer.win-net.org  
B 120 dgs - 14064.9

\* K7SLI.#NWWA.WA.USA.NA - Jim - Seattle - basalop@gte.net  
3619.9 3623.9 3626.9 3628.9 3630.9 7067.9 7068.9 7069.9 7072.9  
10126.9 10127.9 10128.9 10140.4

14068.9 14070.9 14072.9 14117.9

\* KD1RY.CT.USA.NA - Rocco -  
B WSW: 14071.4

KD7UM.#SLC.UT.USA.NA - Dave - christensendl@chq.byu.edu  
3620.9 3622.9 3626.9 7072.9 7074.9 7076.9  
10126.9 10128.9 14068.9 14072.9 14076.9 21070.9 21074.9 28126.9

\* KI0JO.#CEMO.MO.USA.NA - Tom - Versailles - ki0jo@laurie.net  
N call@cou.win-net.org  
D 1200-2300Z: 7070.4 7075.4 10125.9 10127.9 14076.4 14112.4  
2300-1200Z: 3612.9 3619.9

KK5QT.#STX.TX.USA.NA - Robby - Seguin - roberson@wans.net  
D 1800-0700 lt: 3604.9 3612.9 3619.9 3621.9  
0700-1800 lt: 7067.9 7068.9 7070.9 7071.9 10125.9 10127.9  
14067.9 14068.9 14075.9

\*M KN6KB.#MLBFL.FL.USA.NA - Rick - nr Melbourne/FL -  
muething@compuserve.com  
HN www.dwatt.com/users/kn6kb.html - call@mlb.win-net.org  
V 3617.9 3618.9 3621.9 7070.4 7072.9 7104.4  
10123.9 10125.9 10140.4 14067.9 14068.9 14110.9

\* NOIA.#CENFL.FL.USA.NA - Bud - budt@n-jcenter.com - \* on test \*  
3624.9 7070.4 7072.9 7101.4 10127.9  
2200-1300: 3626.9 7071.9 10130.9  
1300-2200: 14110.4 14112.4 18102.9 21066.9

\*M N0ZO.#LAKE.FL.USA.NA - Pat - n0zo@lcia.com -  
HN members.lcia.com/n0zo - call@lee.win-net.org  
V 0000-1200: 3617.9 3619.9 3621.9 3622.9 3623.9  
1200-2400: 7070.4 7071.9 7101.4 10125.9 10127.9 10140.4  
14066.9 14068.9 14112.4 14117.9

\* N1NNM.#ENC.NC.USA.NA - Luke - Millcreek - n1nnm@coastalnet.com  
V H24: 3618.9 3619.9 3621.9 7069.9 7071.9 7073.9 7076.9  
0000-1200: 3617.9 3620.9  
1200-2400: 10121.9 10125.9 10127.9 14067.9 14069.9 14074.9 14075.4

N4SS.#WFL.FL.USA.NA - Nick - Milton/Pensacola - zorn@gulf.net -  
(H24) 3621.9 7070.9 7100.4 10125.9 14071.4 14097.9  
0100-1300: 3617.9  
1300-0100: 7072.4 14073.4 14075.9 14076.9 14077.9

N5TC.#STEX.TEX.USA.NA - Tom - College Station - n5tc@juno.com  
3627.9 7065.9 7066.9 7067.9 10134.9 10135.9 14077.9 18105.9

N7QDN.#PDX.OR.USA.NA - Duane - nr Portland - duane@qcsn.com  
D 3623.9 3624.9 3626.9 3628.9 10123.9 10125.9 10126.9 10127.9

\* N8PGR.#NEOH.OH.USA.NA - Hans - nr Cleveland - N8PGR@custsys.com -  
V 7065.9 7067.9 7071.9 7101.4 10127.4 10140.4 14074.9 14117.9  
2200-1400: 3620.9 3621.9 3622.9 3629.75 0500-1700: 10137.9  
1200-0000: 14067.9 14072.9 14075.9 14077.9 18101.4

1200-2000: 21072.9 21074.9 21079.9 28074.9 28079.9

NZ2T.#DFW.TX.USA.NA - Bob nr Dallas -  
V 7066.9 7073.9 7077.8 7101.4 10125.8 10127.9 10140.4  
14067.9 14115.9 14117.9 -

\* W2NRE.NY.USA.NA - Warren - sinshmer@is2.nyu.edu  
N call@hpn.win-net.org  
3619.9 3621.9 3624.9 7069.9 7071.9 7101.4 10125.9 10127.9  
14112.4 14117.9 18106.9 18107.9 21067.9 21069.9

W3GL.#APL.DE.USA.NA - Ralph  
V 7067.9 7070.9 7071.9 7077.8 7101.4 10125.9 10127.9 10141.4  
14068.9 14112.4 14117.9  
1100-2200: 14072.9 14074.9 21072.9 21074.9 24914.9  
28072.9 28079.9 28126.9 28127.9  
2200-1100: 7070.4 7071.4 7072.4 7100.4 10126.9 10128.9 10143.4

\*M W4NPX.#CVA.VA.USA.NA - Bob - Charlottesville - w4npx@m6.sprynet.com  
HN home.sprynet.com/sprynet/w4npx - call@cho.win-net.org  
D 3619.9 3627.8 3630.8 7063.8 7065.8 7067.9 7069.9 7071.9 7101.4  
7104.3 10125.9 10127.9 10132.8 10133.8 10142.3  
B 14063.8 14065.8 14069.9 14071.9 21063.8 21073.9 28072.8

\*M W5KSI.#NOLA.LA.USA.NA - Angelo - New Orleans  
3620 3622 7069 7071 7075.5 7101.5 14068 14069 14070 14071  
14072 14073 14073.5 14074 14079 14112.5 14118

O W5ZIT.TX.USA.NA - Jim - nr Dallas  
7070.9 7072.9 7074.9 10130.9 10132.9 10133.9

\*M W7IJ.#WWA.WA.USA.NA - Bill - nr Olympia - 71736.1220@compuserve.com  
V 3604.9 3619.9 3623.9 7067.9 7068.9 10125.9 10127.9  
14067.9 14068.9 18104.4 18105.4  
B ESE: 14117.9 21077.9 21078.9

O W8KCQ.OH.USA.NA - Bill - \* no forwarding \*  
3644.9 7070.9 7073.4 10127.9 14078.9 14079.9  
18107.4 21078.9 28078.9

\* W9MR.#SEIL.IL.USA.NA - Ken - Keensburg - kmartin@wworld.com  
N call@evv.win-net.org  
V 3620.9 3621.9 7065.9 7067.9 7071.9 7101.4  
10125.9 10126.9 10140.4 10146.4 14067.9 14074.9 14117.9  
18103.9 21072.9

\* WA1URA.IN.USA.NA - Frank nr Fort Wayne - fnmoore@cris.com  
N call@fwa.win-net.org  
3619.9 3621.9 7070.9 7075.4 7101.4 10125.9 10127.9 10139.4 10140.4  
14068.9 14070.4 14071.4 14073.4 14074.9 14112.4 14117.9  
21073.9 21075.9 21078.9

\*O WA2MFY - Peter - \* NO forwarding \*  
3641.9 3644.9 7070.9 7073.4 7075.4 7076.4  
14068.9 14070.4 14078.9 14079.9 21075.9 21078.9 28070.9

WA7EES.#RN7NTS.OR.USA.NOAM - Dave - Portland - wa7ees@gte.net  
1816.9 3619.9 3621.9 3624.9 3626.9 3628.9 3630.9  
7068.9 7070.9 7075.4 10125.9 10126.9 10127.9 10130.9 10139.9  
14068.9 14070.4 14071.4 14072.4 14072.9 21073.9

O WA7NTF.#TAC.#WWA.WA.USA.NA -  
1816.9 3626.9 3628.9 7068.9 7070.9 10126.9 10128.9  
14068.4 14071.9 14076.9 18104.9 21077.9 24924.9 28124.9

WA9WCN.IN.USA.NA - Bob - Indianapolis - \*\*\* QRT wef 98JUL01 \*\*\*  
adams@iquest.net  
D 3615.9 3620.9 3621.9 7067.9 7069.9

\* WB0TAX.#SHRV.LA.USA.NA - Deni - Shreveport - deni@dwatt.com  
HN http://www.dwatt.com - call@shv.win-net.org  
D 3617.9 3619.9 3621.9 3623.9 7067.9 7070.4 7075.4 7101.4  
10125.9 10127.9 10129.9 10132.9

WB2CJL.#WNY.NY.USA.NA - Bob - wb2cj1@juno.com  
B EU 1300-2300: 14065.9 14066.9 14068.4 14068.9 14069.9  
14072.9 14076.9 14112.4 21068.9 21072.9

\* WB5KSD.ETX.TX.USA.NA - Jon - Farmersville  
N call@dfw.win-net.org  
3624.9 3626.9 3628.9 7072.9 7074.9 7076.9 7101.4  
10127.9 10132.9 10133.9 10141.4 14068.9 14072.9 14074.9 14113.9

WB5UJO.TX.USA.NA - Hoppy - 7074.9

WG1I.FN42KK.MA.USA.NA - Mike - Medford  
3619.9 3620.9 3621.9 3622.9 3623.9 3624.9 3627.9  
7069.9 7070.9 7071.9 7072.4 7072.9

WX4J.#SWITZ.FL.USA.NA - Earl - wx4j@juno.com -  
N call@jax.win-net.org  
D 3617.9 3619.9 3621.9 3623.9 7068.9 7070.4 7070.9  
7071.4 7072.4 7073.4 14071.4 14072.4 14073.4

Updates received from:

K1UOL K4CJX K6IXA KE6RK KI0JO KN6KB N0ZO N7QDN V31ZM W7IJ WA9WCN ZF1GC

Additions/corrections to ZS5S @ ZS5S.ZAF.AF or e-mail: zs5s@iafrica.com

Note: The 'Center Frequency' notation can be used for ALL Digital Modes.  
Your dial (read-out) frequency will be:

On LSB: CF + CFT  
On USB: CF - CFT

Where CFT is the 'Center Frequency Tones', the mean of the tone frequencies of your particular modem (e.g. PK232 = 2210 Hz)

- end -

SB PACTOR @ WW < ZS5S \$PCT051\_ZS5S  
PCT MBOS AF/AS/EU/OC 98MAY01

Following is the original, most comprehensive and up-to-date

Directory of Pactor Mailboxes, covering Region 1 and 3.  
All MBO's are using Winlink Multimode software and are  
available 24 hours, unless noted.  
Listed is the standard Center Frequency (see foot note).

7Z1AB.#APL.SAU.AS - Barry/G4KUD - Riyadh - 14073.9

9A0APL.HRV.EU - Darko/9A6D - Zagreb - 9a0apl@zag.win-net.org

N call@zag.win-net.org

D 2200-0500: 7036.9 7037.9 7039.9

B 315 dgs - 0500-2200: 14068.9 14071.9 14078.9

\* 9K2EC.KWT.AS - Mohsen - Kuwait - \* appears to be qrt \*

B 14065.9 14070.9 14079.9 18104.9 21070.9 21080.9

AS/OC: 0900-1300 2100-0600 - EU: 0600-0900 1300-2100

\*M A45XH.OMN.AS - Tom/A45ZO - Muscat - omantom@gto.net.om

N call@mct.win-net.org

B 14064.9 14067.9 14069.4 14070.9 14071.9 14072.9 14074.9

21070.9 21072.9

AF/AS/OC: 1100-1200 - EU/MDLE: 0300-1100 1200-1700

V 1700-0300:

14064.9 14067.9 14069.4 14070.9 14071.9 14072.9 14074.9

\*M AP5ARS.#ISL.PAK.AS - Tariq/AP2TJ - Islamabad - ap2tj@paknet2.ptc.pk

N call@pak.win-net.org

B ME/EU/AF - 0900-1600: 14064.9 14065.9 14068.9 14072.9 14073.9  
18104.9 21068.9 21072.9

0900-1400: 28072.9

V 1600-0200: 7030.9 7035.9 7036.9 7037.9 10144.9 10145.9 14064.9

\* DK0MUN.#BAY.DEU.EU - Werner nr Munich - DL2JA\_DK4IF@compuserve.com

B AS/OC: 14065.9 14069.4

\* # F3KT.FPDL.FRA.EU - Michel - Nantes -

B 7037.9 7039.9 14070.9 14072.9 14074.9 21072.9 21076.9 28101.9

0600-0700: NE 0700-1700: S

7037.9 7039.9 14065.9 14068.9 14069.9 14072.9 14076.9 21072.9

1700-2000: NW

D 2000 - 2200: 3578.9 3580.9 3581.9 3583.9 3585.9 3587.9 3588.9

2200 - 0600: 10136.9 10139.9 10142.9

\*O F5SIZ.FMLR.FRA.EU - Andre/F6FUB - nr Millau - penja@bigfoot.com

D 3578.9 3580.9 3581.9 3583.9 3585.9 3587.9 3588.9 7037.9 7039.9

B 14065.4 14070.9 14071.4 14071.9 14072.9

21072.9 21076.9 28101.8

S: 0600-1800 - W: 1800-0600

\*O F6CDD.FMLR.FRA.EU - Rene - Toulouse - cestdaidai@aol.com

D 3578.9 3580.9 3583.9 3585.9 7036.9 7037.9 7039.9

B 14069.9 14073.9 21072.9 28101.9 (auto DF)

O GB7SIG.#45.GBR.EU - Jim/G3WGM - jim@mail.army.mod.uk

H www.hfmailbox.rsars.org.uk

3580.9 3588.4 3588.9 7037.9 7038.9 7039.9 10144.9 10145.9

14074.9 14075.9 14076.9 14077.9 21079.9

\*O HB9AK.CHE.EU - Paul/HB9AVK - Meilen - 100614.2414@compuserve.com  
V 3580.9 3582.9 3587.9 7037.9 7039.9 7040.9  
14070.9 14071.9 14077.9 14097.9 18101.9 21070.9 21079.9

\* HS0AC.#PWT.BKK.THA.AS - Rudolf/DL1ZAV - Bangkok -  
kruggelr@siemens.co.th -  
N call@bkk.win-net.org  
14069.4 14072.4 - 0800-1600z: 21072.4

I5FLN.ITOS.ITA.EU - Luciano - Florence - i5fln@iol.it  
B 14068.9 14072.9 21068.9 21072.9 28068.9 28072.85  
AF 0600-1800 NA 1700-2300

\*O JA5TX.39.JNET5.JPN.AS - Mitsuo - VYL04312@NIFTYSERVE.OR.JP  
B 7028.9 7029.9 14070.9 14071.9 14073.9 14075.9 14077.9 21072.9

\* JA8HK.01.JNET8.JPN.AS - Mat - Sapporo - ja8hk@ka2.so-net.or.jp  
B 7029.9 (J1KAU) - 14069.9 14071.9 14073.9 14075.9 14077.9  
0000-0900 South - 0900-2100 AF/AS/EU/NA - 2200-2400 NA/SA

\*M OE4XBU.AUT.EU - Rudi/OE4RYC - oe4ryc@bnet.at -  
B 14072.9 14074.9 14077.9 14079.9 21072.9 21075.4  
S during day and W during night

OH2BAW.FIN.EU - Staffan - hermans@clinet.fi  
3581.4 3586.9 7036.9 7037.9 10145.9  
B 14067.9 14069.9 14070.9 14075.9 21077.4

\* OH2NPE.FIN.EU - Teo - Espoo -  
B East: 14073.9 14077.9

O OK0PBR.#MOR.CZE.EU - Libor/OK2PEN - Brno - \* appears to be qrt \*  
ok2pen@gw.ok0nmg.ampr.org  
V 3582.9 7037.9 10127.9 14066.9 14072.9 14074.9 14076.9  
18107.9 18107.9 21072.9 28072.9

\*# ON6RO.LG.BEL.EU - Rene - Liege -  
V 3578.9 3581.9 7036.9 7037.9 7039.9 10145.9  
B 14065.4 14068.4 14069.9 14070.9 14072.9 14074.9 21072.9 21075.4  
AF 0600-1000, AS 1000-1100 1900-0600, NA 1100-1900

\*M OZ2AMT.ISH.SJL.DNK.EU - Kristian/OZ6KN - nr Copenhagen  
V 0600-1730: 7037.9 7039.9 10145.9  
B SW 14065.9 14067.4 14068.4 14072.9 14074.9 14077.9 14117.9  
21067.4 21072.9 21075.4  
V 1730-2200: 3577.9 3587.4 3588.9 7037.9 7039.9 10145.9  
B W 14067.4 14068.4 14072.9

\* OZ4SCA.OEL.JYN.DNK.EU - Erik/OZ4KK - erikj@isa.dknet.dk  
V 3577.9 3580.9 3582.9 3587.9 3591.9  
7037.9 7039.9 7040.9 10141.9 10145.9  
B 14067.9 14068.4 14069.45 14070.9 14071.9 14072.9 14117.9  
21072.9 21075.4

\*O SM3HUA.Y.SWE.EU - Peter - Solleftea - sm3hua@swipnet.se

D 1837.9 1838.9 3580.9 3583.9 3585.9 3586.9 3591.9  
7034.9 7036.9 7039.9 10139.9 10142.9  
14069.9 14070.9 14071.9 14072.9 14073.9 14074.9 14075.9  
14076.9 14077.9 14078.9 14079.9 14089.9 18103.9 18107.9  
21083.9 21086.9 24076.9 24927.9 28079.9 28084.9

\* SM7TDC.M.SWE.EU - Chrisi - Hoellviken  
V 1500-0100: 3583.9 3593.9 3596.9 3097.9 7035.9 7036.9 7037.9  
B EU 1100-1500: 14064.9 14065.9 14068.9 14072.9 14073.9 14075.9

\* SV1IW.GRC.EU - Manos - Athens - \* appears to be qrt \*  
1700 - 1100: 14066.9 14068.9 14070.9 14072.9  
1200 - 1600: 21070.9 21072.9 21074.9 21076.9

\* TA3BBS.#IZM.TUR.AS - Mustafa/TA3B - Izmir - \* appears to be qrt \*  
nbn@tr-net.net.tr  
14073 -  
B EU 0600-1700, AF 1700-0600

TA7TRA.#TRA.TUR.AS - Ozkan - 14067.9

\* TL8MS.CAF.AF - Stefan - Baboua - aterca@intnet.cf  
0500-0630 1200-2400: 14072.9 - 0630-1200: 21076.9  
B AF/EU/NA: 0500-2100 - AS/OC: 2100-2400

# TU5EX.CIV.AF - Didier - Abidjan - tu5ex@globeaccess.net  
D 0100-0600: 3581.9 7037.9 7039.9 10142.9 14072.9  
B 0600-2400: 14065.4 14070.9 14072.9 14079.9  
21072.9 21076.9 28101.9  
EU: 0600-1300 1500-2400 - South: 1300-1500

\*M VK2AGE.#NE.NSW.AUS.OC - Gordon - nr Brisbane - gadow@om.com.au  
B 7044.9 10108.9 10110.9 10126.9 14074.9 14076.9 21075.9 -  
NA 2330-0600 1030-1130 AF 0600-0800  
AS/EU 0800-0900 (LP) 0900-1030 1130-1300 1330-2330

\* VK2DW.NSW.AUS.OC - Don - Kempsey - vk2dw@midcoast.com.au  
H www.midcoast.com.au/users/vk2dw  
D 0600-2100: 10125.9 - 2100-0600: 14067.9

O VK2DYX.#MNC.NSW.AUS.OC - Karl - Taree -  
D Night: 3630, Day: 14079.9

VK3WZ.#MEL.VIC.AUS.OC - John - Melbourne - johnja@hard.net.au  
B WNW: 14070.9

O VK4FIL.FNQ.QLD.AUS.OC - Phil - Cairns -  
B South: 14072.4

O VK4GKM.#CQ.QLD.AUS.OC - Graeme - Biloela - graeme@tpgi.com.au  
B 350 dgs: 14079.9

\*O VK5ATB.#BVL.#SA.AUS.OC - Pops - Nuriootpa - pops@ausbadge.mtx.net  
V 3629.8 3632.9 7034.9 7039.9 14075.9 14077.9 14079.9  
21071.9 21073.9 21075.9 21077.9 28077.9

O VK5RQ.#SYP.#SA.AUS.OC - Joe - nr Adelaide - none  
B mostly 315 dgs: 14072.4 21075.9

\* VK6TN.#WA.AUS.OC - Ernie - nr Perth - vk6tn@hotmail.com  
B 14070 14071 14073 14075 14077 14080 14081 21071 21081  
0000-0130: NZL, 0130-0300: India, 0300-0800: AF/MDLE,  
0800-1000: Far East, 1000-2400: EU

O VK7PU.#BUR.TAS.AUS.OC - Phil - Burnie - philharb@webnet.com.au  
B North: 14079.9

\*M VR2FN.HKG.AS - Ray - Hong Kong - rayfaulkner@attmail.com  
D 14068.4 14075.4 14077.4 14079.4 -

O ZL1AJP.#01.NZL.OC - Ron -  
D 3629.8 7031.0 14072.4

\* ZS2FP.ZAF.AF - Piet - Port Elizabeth - \* QRT indefinately \*  
piet-f@iafrica.com  
B North - 0600-1600: 21076.9 - after 1600: 14072.9

\*M ZS5S.ZAF.AF - Joost - nr Durban - zs5s@iafrica.com -  
HN users.iafrica.com/z/zs/zs5s - call@dur.win-net.org  
B 7037.0 7041.0 14064.0 14069.0 14073.0 14118.0  
21064.0 21069.0 21073.0 28073.0  
AF/EU: 0800-1200 1500-1900  
AS/OC: 0600-0800 1200-1500 2100-0500  
NA : 2100-0600 - SA : on request

\* ZS6KM.TVL.ZAF.AF - Mario - Pretoria -  
B night: 14074.9 day: 21075.43